



BUILDING AND NEIGHBORHOOD COMPLIANCE DEPARTMENT (BNC)
BOARD AND CODE ADMINISTRATION DIVISION

MIAMI-DADE COUNTY
PRODUCT CONTROL SECTION

11805 SW 26 Street, Room 208
Miami, Florida 33175-2474
T (786) 315-2590 F (786) 315-2599
www.miamidade.gov/building/

NOTICE OF ACCEPTANCE (NOA)

Polyglass USA, Inc.
150 Lyon Drive
Fernley, NV 89408

SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County BNC - Product Control Section to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. BNC reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein, and has been designed to comply with the Florida Building Code including the High Velocity Hurricane Zone of the Florida Building Code.

DESCRIPTION: Polyglass Modified Bitumen Roof System Over Wood Decks

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, city, state and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This renews NOA# 08-0827.18 and consists of pages 1 through 34.
The submitted documentation was reviewed by Alex Tigera.



NOA No.: 11-0621.07
Expiration Date: 09/13/12
Approval Date: 09/15/11
Page 1 of 34

ROOFING ASSEMBLY APPROVAL

Category: Roofing
Sub-Category: Modified Bitumen
Materials SBS/APP/TPO
Deck Type: Wood
Maximum Design Pressure -112.5 psf

TRADE NAMES OF PRODUCTS MANUFACTURED OR LABELED BY APPLICANT:

TABLE 1

<u>Product</u>	<u>Dimensions</u>	<u>Test Specification</u>	<u>Product Description</u>
Polyflex	32' 10" x 3' 3-3/8"	ASTM D 6222	Torch applied, polyester reinforced, APP modified bitumen membrane with a burn off polyethylene back face and a smooth or sanded top surface.
Polyflex G	32' 10" x 3' 3-3/8"	ASTM D 6222	Torch applied, polyester reinforced, APP modified bitumen membrane with a burn off polyethylene back face and a granule top surface.
Polyflex G FR	32' 10" x 3' 3-3/8"	ASTM D 6222	Torch applied, polyester reinforced, APP modified bitumen membrane with a burn off polyethylene back face and a granule top surface and fire retardant chemistry.
Polybond	32' 10" x 3' 3-3/8"	ASTM D 6222	Torch applied, polyester reinforced, APP modified bitumen membrane with a burn off polyethylene back face and a smooth or sanded top surface.
Polybond G	32' 10" x 3' 3-3/8"	ASTM D 6222 Type I	Torch applied, polyester reinforced, APP modified bitumen membrane with a burn off polyethylene back face and a granule top surface.
Elastoflex S6	32' 10" x 3' 3-3/8"	ASTM D 6164	Torch, hot asphalt or cold adhesive applied, polyester reinforced, SBS modified bitumen membrane with a burn off polyethylene or sanded back face and a polyethylene or sanded top surface.
Elastoflex S6 G	32' 10" x 3' 3-3/8"	ASTM D 6164	Torch, hot asphalt or cold adhesive applied, polyester reinforced, SBS modified bitumen membrane with a burn off polyethylene or sanded back face and a granule top surface.
Elastoflex S6 G FR	32' 10" x 3' 3-3/8"	ASTM D 6164	Torch, hot asphalt or cold adhesive applied, polyester reinforced, SBS modified bitumen membrane with a burn off polyethylene or sanded back face and a granule top surface and fire retardant chemistry.



NOA No.: 11-0621.07
Expiration Date: 09/13/12
Approval Date: 09/15/11
Page 2 of 34

<u>Product</u>	<u>Dimensions</u>	<u>Test Specification</u>	<u>Product Description</u>
Elastoshield TSG	32' 10" x 3' 3-3/8"	ASTM D 6164	Torch, hot asphalt or cold adhesive applied, polyester reinforced, SBS modified bitumen membrane with a burn off polyethylene or sanded back face and a granule top surface.
Elastoshield TSG FR	32' 10" x 3' 3-3/8"	ASTM D 6164	Torch, hot asphalt or cold adhesive applied, polyester reinforced, SBS modified bitumen membrane with a burn off polyethylene or sanded back face and a granule top surface and fire retardant chemistry.
Elastoflex V	32' 10" x 3' 3-3/8"	ASTM D 6163	Torch, hot asphalt or cold adhesive applied, fiberglass reinforced, SBS modified bitumen membrane with a burn off polyethylene or sanded back face and a sanded top surface.
Polyfresko Mop	32' 10" x 3' 3-3/8"	ASTM D 6164	Torch, hot asphalt or cold adhesive applied, polyester reinforced, SBS modified bitumen membrane with a burn off polyethylene or sanded back face and a granule top surface.
Polyfresko Mop FR	32' 10" x 3' 3-3/8"	ASTM D 6164	Torch, hot asphalt or cold adhesive applied, polyester reinforced, SBS modified bitumen membrane with a burn off polyethylene or sanded back face and a granule top surface and fire retardant chemistry.
Polyfresko Torch	32' 10" x 3' 3-3/8"	ASTM D 6222	Torch applied, polyester reinforced, APP modified bitumen membrane with a burn off polyethylene back face and a granule top surface.
Polyfresko Torch FR	32' 10" x 3' 3-3/8"	ASTM D 6222	Torch applied, polyester reinforced, APP modified bitumen membrane with a burn off polyethylene back face and a granule top surface and fire retardant chemistry.
Elastobase	65' 2" x 3' 3-3/8"	ASTM D 6163 Type I	SBS modified asphalt coated fiberglass reinforced base sheet.
Elastobase P	65' 2" x 3' 3-3/8"	ASTM D 6164	SBS modified asphalt coated polyester reinforced base sheet.
Cold Process Adhesive	1, 3, 5, 50, 55 gal. or tube	ASTM D3019 Type III	A fibered cold process adhesive for use with roll or BUR roofing.
PG100 Asphalt Primer	1, 3, 5, 50, 55 gal, tube or 17 oz. spray can	ASTM D41	A penetrating solution of solvent and a blend of selected asphalts used to promote adhesion.
PG350 Mod Bit Adhesive	1, 3, 5, 50, 55 gal. or tube	ASTM D3019 Type III	A fibered rubberized adhesive designed for use with modified bitumen membranes.
PG400 Plastic Roof Cement	1, 3, 5, 50, 55 gal. or tube	ASTM D4586 ASTM D3409	A thick, fibered, rubberized flashing cement for use in dry or damp conditions.



<u>Product</u>	<u>Dimensions</u>	<u>Test Specification</u>	<u>Product Description</u>
PG425 Wet/Dry Roof Cement	1, 3, 5, 50, 55 gal. or tube	ASTM D4586 ASTM D3409	A thick, fibered, rubberized flashing cement for use in dry or damp conditions.
PG450 Flashing Cement	1, 3, 5, 50, 55 gal. or tube	ASTM D4586	A thick, fibered, rubberized flashing cement.
PG500 MB Flashing Cement	1, 3, 5, 50, 55 gal. or tube	ASTM D4586	A thick, fibered, rubberized flashing cement for use with modified bitumen membranes.
Polyplus 35 Premium Mod Bit Adhesive	1, 3, 5, 50, 55 gal. or tube	ASTM D3019 Type III	A fibered rubberized adhesive designed for use with modified bitumen membranes.
Polyplus 45 Premium Flashing Cement	1, 3, 5, 50, 55 gal. or tube	ASTM D4586	A thick, fibered, rubberized flashing cement.
Polyplus 50 Premium MB Flashing Cement	1, 3, 5, 50, 55 gal. or tube	ASTM D4586	A thick, fibered, rubberized flashing cement for use with modified bitumen membranes.
Polyplus 55 Premium Modified Flashing Cement	1, 3, 5, 50, 55 gal. or tube	ASTM D4586	A mastic compound for use as a roof flashing adhesive.

APPROVED INSULATIONS:

<u>Product Name</u>	<u>Product Description</u>	<u>Manufacturer (With Current NOA)</u>
POLYTHERM	Polyisocyanurate foam insulation	Polyglass USA, Inc.
POLYTHERM Composite	PolyIso/perlite composite insulation.	Polyglass USA, Inc.
ACFoam II, ACFoam III	Polyisocyanurate foam insulation	Atlas Energy Products
High Density Wood Fiberboard	Wood fiber insulation board	Generic
Perlite Insulation	Perlite insulation board	Generic
Type X Gypsum	Fire resistant rated gypsum.	Generic
Dens-Deck or Dens Deck Prime	Gypsum insulation board	Georgia-Pacific
Fesco Board	Rigid perlite roof insulation board.	Johns Manville
H-Shield	Polyisocyanurate foam insulation	Hunter Panels, LLC
ENRGY-3	Polyisocyanurate foam insulation	Johns Manville Corp.
Multi-Max-3, Multi-Max FA-3	Polyisocyanurate foam insulation	RMax, Inc.
Securock	Fiber reinforced coverboard	USG



APPROVED FASTENERS:**TABLE 3**

<u>Fastener Number</u>	<u>Product Name</u>	<u>Product Description</u>	<u>Dimensions</u>	<u>Manufacturer (With Current NOA)</u>
1.	Dekfast Fasteners #12, #14 & #15	Insulation fastener for wood, steel and concrete decks		SFS Intec
2.	Dekfast Hex Plate	Galvalume hex stress plate.	2 ⁷ / ₈ " x 3 ¹ / ₄ "	SFS Intec
3.	Dekfast Lock Plate	Polypropylene locking plate.	3" x 3 ¹ / ₄ "	SFS Intec
4.	#12 & #14 Roofgrip	Insulation and membrane fastener	Various	OMG
5.	Metal Plate	Galvalume AZ50 stress plate	3" square	OMG
6.	Plastic Plate	Polyethylene stress plate	3.2" round	OMG
7.	Tru-Fast HD	Insulation fastener for steel and wood decks		The Tru-Fast Corp.
8.	Tru-Fast Plates	Galvalume AZ55 steel plate	3" round	The Tru-Fast Corp.
9.	Tru-Fast Plates	Polyethylene plastic plate	3" round	The Tru-Fast Corp.

APPROVED SURFACING:**TABLE 4**

<u>Number</u>	<u>Product Name</u>	<u>Product Description</u>	<u>Application Rate</u>	<u>Specification</u>	<u>Manufacturer</u>
1.	PG200 Non-Fibered Roof Coating	A non fibered asphaltic coating used to add life and rejuvenate existing BUR roofing substrates.	1½-2 gal/sq	TAS 140	Polyglass USA, Inc
2.	PG300 Fibered Roof Coating	An asphalt cutback fibered roof coating. May be applied by brush or spray equipment to rejuvenate aged BUR	1½-2 gal/sq	ASTM D4479	Polyglass USA, Inc.
3.	PG600 Non-Fibered Aluminum Roof Coating	Non-fibered aluminum roof coating.	½-1 gal/sq	ASTM D2824 Type I	Polyglass USA, Inc.
4.	PG650 Fibered Aluminum Roof Coating	Fibered aluminum roof coating.	1½-2 gal/sq	ASTM D2824 Type III	Polyglass USA, Inc.



NOA No.: 11-0621.07
 Expiration Date: 09/13/12
 Approval Date: 09/15/11
 Page 5 of 34

APPROVED SURFACING:**TABLE 4**

<u>Number</u>	<u>Product Name</u>	<u>Product Description</u>	<u>Application Rate</u>	<u>Specification</u>	<u>Manufacturer</u>
5.	PG700 White Reflective Roof Coating	A premium white elastomeric acrylic based roof coating (water-based). A polyester fabric may be used for reinforcement with this coating.	1-1½ gal/sq	ASTM D6083	Polyglass USA, Inc.
6.	PG800 Non-Fibered Asphalt Emulsion Roof Coating	An asphalt based, non-fibered clay emulsion	3 gal/sq in two coats	ASTM D1227	Polyglass USA, Inc.
7.	PG850 Fibered Asphalt Emulsion Roof Coating	An asphalt base, fibered clay emulsion	3 gal/sq in two coats	ASTM D1227	Polyglass USA, Inc.
8.	Polyplus 65 Premium Fibered Aluminum Roof Coating	Fibered aluminum roof coating.	1½-2 gal/sq	ASTM D2824 Type III	Polyglass USA, Inc.
9.	Polyplus 60 Premium Non-Fibered Aluminum Roof Coating	Non-fibered aluminum roof coating.	½-1 gal/sq	ASTM D2824 Type I	Polyglass USA, Inc.
10.	Polybrite 70 White Elastomeric Roof Coating	A premium white elastomeric acrylic based roof coating (water-based). A polyester fabric may be used for reinforcement with this coating.	1-1½ gal/sq	ASTM D6083	Polyglass USA, Inc.
11.	Mule-Hide 111 Non-Fibrated Roof Coating	A non-fibered asphaltic coating used to add life and rejuvenate existing BUR roofing substrates.	1½-2 gal/sq	TAS 140	Mule-Hide Products Co., Inc.
12.	Mule-Hide 102 Fibrated Roof Coating	An asphalt cutback fibered roof coating. May be applied by brush or spray equipment to rejuvenate aged BUR	1½-2 gal/sq	ASTM D4479	Mule-Hide Products Co., Inc.
13.	Mule-Hide 416 Standard Non-Fibrated Aluminum Roof Coating	Non-fibered aluminum roof coating.	½-1 gal/sq	ASTM D2824 Type I	Mule-Hide Products Co., Inc.



APPROVED SURFACING:**TABLE 4**

<u>Number</u>	<u>Product Name</u>	<u>Product Description</u>	<u>Application Rate</u>	<u>Specification</u>	<u>Manufacturer</u>
14.	Mule-Hide 406 Standard Fibrated Aluminum Roof Coating	Fibrated aluminum roof coating.	1½-2 gal/sq	ASTM D2824 Type III	Mule-Hide Products Co., Inc.
15.	Mule-Hide 401 Premium Fibrated Aluminum Roof Coating	Fibrated aluminum roof coating.	1½-2 gal/sq	ASTM D2824 Type III	Mule-Hide Products Co., Inc.
16.	Mule-Hide 410 Premium Non- Fibrated Aluminum Roof Coating	Non-fibered aluminum roof coating.	½-1 gal/sq	ASTM D2824 Type I	Mule-Hide Products Co., Inc.
17.	Mule-Hide 311 Emulsion Non- Fibrated	An asphalt base, non- fibered clay emulsion	3 gal/sq in two coats	ASTM D1227	Mule-Hide Products Co., Inc.
18.	Mule-Hide 301 Emulsion Fibrated	An asphalt base, fibered clay emulsion	3 gal/sq in two coats	ASTM D1227	Mule-Hide Products Co., Inc.
19.	Gravel	To be installed in a flood coat of approved asphalt at 60 lbs/sq	400 lbs/sq	N/A	Generic
20.	Slag	To be installed in a flood coat of approved asphalt at 60 lbs/sq	300 lbs/sq	N/A	Generic



EVIDENCE SUBMITTED:

<u>Test Agency</u>	<u>Test Name/Report</u>	<u>Report No.</u>	<u>Date</u>
Factory Mutual Research Corporation	4470	J.I. 2W7A7.AM	08.04.94
	4470	J.I. 3001334	02.15.00
	4470	J.I. 3000857	01.12.00
	4470	J.I. 3004091	01.12.00
Underwriters Laboratory	TAS 114	00NK20869	06.08.00
Trintiy ERD	TAS 114	#11751.05.03	05.30.03
	TAS 114	11757.12.00-1	12.01.00
	TAS 114	11757.04.01-1	04.27.01
	TAS 114	#11758.08.03	08.11.03
	TAS 114	#P1738.02.07	02.05.07
	TAS 117(B)-ASTM D6862	C8500SC.11.07	11.30.07
	ASTM D 6164 / D 6222	P10490.08.08	08.14.08
PRI Asphalt Technologies	ASTM D6222	PUSA-062-02-01	12.04.07
	ASTM D6163	PUSA-064-02-02	02.27.08



APPROVED ASSEMBLIES

- Deck Type II:** Wood, Insulated
- Deck Description:** $\frac{19}{32}$ " or greater plywood or wood plank, fastened with 8d common nails at 4" o.c. or #8 screws at 6" o.c.
- System Type A(1):** All insulation layers are adhered to a mechanically attached anchor sheet. Membrane is subsequently adhered to insulation.

All General and System limitations apply.

One or more layers of the following:

- Anchor Sheet:** One ply of Elastobase Poly/Sand, Sand/Sand fastened to the deck as described below:
- Fastening:** Attach base sheet using Buildex Roofgrip Fasteners and Flat Bottom Plates spaced 12" o.c. in a 4" lap and 12" o.c. in two equally spaced staggered rows in the center of the sheet.

<u>Base Insulation Layer (Optional)</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
Any approved Polyisocyanurate Minimum 1" thick	N/A	N/A
<u>Top Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
Dens Deck, Dens Deck Prime, Securock Minimum $\frac{1}{4}$ " thick	N/A	N/A
Fesco Board Minimum $\frac{3}{4}$ " thick	N/A	N/A
High Density Wood Fiber Minimum $\frac{1}{2}$ " thick	N/A	N/A

Note: All insulation shall be adhered to the anchor sheet in full mopping of approved hot asphalt within the EVT range and at a rate of 20-40 lbs/100 ft². Please refer to Roofing Application Standard RAS 117 for insulation attachment. Insulation listed as base layer only shall be used only as base layers with a second layer of approved top layer insulation installed as the final membrane substrate. Composite insulation panels may be used as a top layer placed with the polyisocyanurate side facing down.

- Ply Sheet:** (Optional) One ply of Elastobase, Modibase, Perma Ply No. 28, Elastoflex S6, Elastoflex V, Elastoflex V 2.5, Polybond or one or more plies of Type IV or VI ply sheet adhered in full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq.



Membrane: One ply of Polyflex, Polyflex G, Polyflex G FR, Polyfresko Torch, Polyfresko Torch FR, Polybond, or Polybond G torch applied or one ply of Elastoflex S6, Elastoflex S6 G, Elastoflex S6 G FR, Polyfresko Mop FR, Elastoshield TSG or Elastoshield TSG FR torch or hot asphalt applied.

Surfacing: (Optional) Install one of the approved surfacing products listed in Table 4 to obtain desired coating or required fire classification.

Maximum Design
Pressure: -60 psf; (See General Limitation #7)



- Deck Type 1I:** Wood, Insulated
- Deck Description:** $1\frac{9}{32}$ " or greater plywood or wood plank, fastened with 8d common nails at 4" o.c. or #8 screws at 6" o.c.
- System Type A(2):** All insulation layers are adhered to a mechanically attached anchor sheet. Membrane is subsequently adhered to insulation.

All General and System Limitations apply.

One or more layers of the following:

Anchor Sheet: One ply of CertainTeed GlasBase, Polyglass Base, Firestone MB Base, JM Perma-Ply #28, Tamko Glass Base or GAFGLAS #75 fastened to the deck as described below:

Fastening: Attach base sheet using 11 ga. annular ring shank and 1-5/8" diameter tin caps spaced 8" o.c. in a 4" lap and 8" o.c. in three equally spaced staggered rows in the center of the sheet.

Base Insulation Layer (Optional)

Insulation Fasteners
(Table 3)

Fastener
Density/ft²

Any approved Polyisocyanurate
Minimum 1" thick

N/A

N/A

Note: All insulation shall be adhered to the anchor sheet in full mopping of approved hot asphalt within the EVT range and at a rate of 20-40 lbs/100 ft². Please refer to Roofing Application Standard RAS 117 for insulation attachment. Insulation listed as base layer only shall be used only as base layers with a second layer of approved top layer insulation installed as the final membrane substrate. Composite insulation panels may be used as a top layer placed with the polyisocyanurate side facing down.

Top Insulation Layer

Insulation Fasteners
(Table 3)

Fastener
Density/ft²

Fesco Board
Minimum 3/4" thick

N/A

N/A

High Density Wood Fiber
Minimum 1/2" thick

N/A

N/A

Dens Deck, Dens Deck Prime, Securock
Minimum 1/4" thick

N/A

N/A

Note: Apply top layer of insulation in a full mopping of any approved mopping asphalt within the EVT range and at a rate of 20-40 lbs/100 ft². Please refer to Roofing Application Standard RAS 117 for insulation attachment. Insulation listed as Base Layer only shall be used only as base layers with a second layer of approved top layer insulation installed as the final membrane substrate. Composite insulation panels may be used as a top layer placed with the polyisocyanurate side facing down.



Ply Sheet: (Optional) One ply of Elastobase, Modibase, Perma Ply No. 28, Elastoflex S6, Elastoflex V, Elastoflex V 2.5 or one or more plies of Type IV or VI ply sheet adhered in full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq.

Membrane: One ply of Polyflex, Polyflex G, Polyflex G FR, Polyfresko Torch, Polyfresko Torch FR, Polybond, or Polybond G torch applied or one ply of Elastoflex S6, Elastoflex S6 G, Elastoflex S6 G FR, Polyfresko Mop, Polyfresko Mop FR, Elastoshield TSG or Elastoshield TSG FR torch or hot asphalt applied

Surfacing: (Optional) Install one of the approved surfacing products listed in Table 4 to obtain desired coating or required fire classification.

Maximum Design Pressure: -60 psf; (See General Limitation #7)



- Deck Type 1I:** Wood, Insulated
- Deck Description:** $1\frac{9}{32}$ " or greater plywood or wood plank.
- System Type A(3):** All insulation layers are adhered to a mechanically attached anchor sheet. Membrane is subsequently adhered to insulation.

All General and System Limitations apply.

One or more layers of the following:

- Anchor Sheet:** One ply of CertainTeed GlasBase, Polyglass Base, Elastobase, Firestone MB Base, JM Perma-Ply #28, Tamko Glass Base or GAFGLAS #75 fastened to the deck as described below:
- Fastening #1:** Attach base sheet using 11 ga. annular ring shank and 1-5/8" diameter tin caps spaced 8" o.c. in a 4" lap and 8" o.c. in three equally spaced staggered rows in the center of the sheet.
- Fastening #2:** Attach base sheet using Buildex Roofgrip Fasteners and Flat Bottom Plates, Dekfast #14 with Hex Plates or Tru-Fast HD with MP-3 Plates spaced 12" o.c. in a 4" lap and 12" o.c. in two equally spaced staggered rows in the center of the sheet.

Base Insulation Layer (Optional)

Insulation Fasteners
(Table 3)

Fastener
Density/ft²

Any approved Polyisocyanurate
Minimum 1" thick

N/A

N/A

Note: All insulation shall be adhered to the anchor sheet in full mopping of approved hot asphalt within the EVT range and at a rate of 20-40 lbs/100 ft². Please refer to Roofing Application Standard RAS 117 for insulation attachment. Insulation listed as base layer only shall be used only as base layers with a second layer of approved top layer insulation installed as the final membrane substrate. Composite insulation panels may be used as a top layer placed with the polyisocyanurate side facing down.

Top Insulation Layer

Insulation Fasteners
(Table 3)

Fastener
Density/ft²

Fesco Board
Minimum 3/4" thick

N/A

N/A

High Density Wood Fiber
Minimum 1/2" thick

N/A

N/A

Dens Deck, Dens Deck Prime, Securock
Minimum 3/4" thick

N/A

N/A



Note: Apply top layer of insulation in a full mopping of any approved mopping asphalt within the EVT range and at a rate of 20-40 lbs/100 ft². Please refer to Roofing Application Standard RAS 117 for insulation attachment. Insulation listed as Base Layer only shall be used only as base layers with a second layer of approved top layer insulation installed as the final membrane substrate. Composite insulation panels may be used as a top layer placed with the polyisocyanurate side facing down.

- Ply Sheet: (Optional) One ply of Elastobase, Modibase, Perma Ply No. 28, Elastoflex S6, Elastoflex V, Elastoflex V 2.5 or one or more plies of Type IV or VI ply sheet adhered in full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq.
- Membrane: One ply of Polyflex, Polyflex G, Polyflex G FR, Polyfresko Torch, Polyfresko Torch FR, Polybond, or Polybond G torch applied or one ply of Elastoflex S6, Elastoflex S6 G, Elastoflex S6 G FR, Polyfresko Mop, Polyfresko Mop FR, Elastoshield TSG or Elastoshield TSG FR torch or hot asphalt applied.
- Surfacing: (Optional) Install one of the approved surfacing products listed in Table 4 to obtain desired coating or required fire classification.
- Maximum Design Pressure: -52.5 psf; (See General Limitation #7)



Deck Type 1I: Wood, Insulated
Deck Description: $\frac{19}{32}$ " or greater plywood or wood plank.
System Type A(4): All insulation layers are adhered to a mechanically attached anchor sheet. Membrane is subsequently adhered to insulation.

All General and System Limitations apply.

Anchor Sheet: One ply of Elastobase or Elastobase P fastened as below:
Fastening: 12 ga. annular ring shank nails and 1-5/8" tin-caps attached 6" o.c. in 4" lap and 6" o.c. in four equally spaced staggered center rows.

One or more layers of the following:

<u>Base Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
ACFoam II, ACFoam III, H-Shield, H-Shield CG, Multi-Max FA3, or ENRGY-3 Minimum 1" thick	N/A	N/A

Insulation: Adhered with WeatherTite One-Step Foamable Adhesive, OlyBond 500, Insta-Stick or TITESET applied in continuous rows 12" o.c.

Ply Sheet: (Optional) One ply of Elastobase, Modibase, Perma Ply No. 28, Elastoflex S6, Elastoflex V, Elastoflex V 2.5 or one or more plies of Type IV or VI ply sheet adhered in full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq.

Membrane: One ply of Polyflex, Polyflex G, Polyflex G FR, Polyfresko Torch, Polyfresko Torch FR, Polybond, or Polybond G torch applied or one ply of Elastoflex S6, Elastoflex S6 G, Elastoflex S6 G FR, Polyfresko Mop, Polyfresko Mop FR, Elastoshield TSG or Elastoshield TSG FR torch or hot asphalt applied.

Surfacing: (Optional) Install one of the approved surfacing products listed in Table 4 to obtain desired coating or required fire classification.

Maximum Design Pressure: -60 psf; (See General Limitation #7.)



- Deck Type 1I:** Wood, Insulated
- Deck Description:** ¹⁹/₃₂" or greater plywood or wood plank, fastened with 8d common nails at 4" o.c. or #8 screws at 6" o.c.
- System Type B(1):** Base layer of insulation mechanically fastened, optional top layer adhered with approved asphalt.

All General and System Limitations apply.

One or more layers of the following:

<u>Base Insulation Layer</u>	<u>Insulation Fasteners</u> <u>(Table 3)</u>	<u>Fastener</u> <u>Density/ft²</u>
ENRGY-3, H-Shield or Polytherm Minimum 1.5" thick	1 or 7	1:1.33 ft ²

Note: Base layer shall be mechanically attached with fasteners and density described. Insulation panels listed are minimum sizes and dimensions; if larger panels are used the number of fasteners per board shall be increased maintaining the same fastener density (See Roofing Application Standard RAS 117 for fastening details).

<u>Top Insulation Layer (Optional)</u>	<u>Insulation Fasteners</u> <u>(Table 3)</u>	<u>Fastener</u> <u>Density/ft²</u>
Fesco Board Minimum ¾" thick	N/A	N/A
High Density Wood Fiber Minimum ½" thick	N/A	N/A

Note: Optional top layer of insulation shall be adhered with approved asphalt within the EVT range and at a rate of 20-40 lbs/100 ft². Please refer to Roofing Application Standard RAS 117 for insulation attachment. Composite insulation boards used as a top layer shall be installed with the polyisocyanurate face down.

- Base Sheet:** (Optional if using ply sheet in hot asphalt) One or more plies of Elastobase, Modibase, Perma Ply No. 28 or GAFGLAS #75 adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq.
- Ply Sheet:** (Optional if using base sheet in hot asphalt) One or more plies of Polybond, or Polyflex torch applied or one ply of Elastobase, Modibase, Perma Ply No. 28, Elastoflex S6, Elastoflex V or Elastoflex V 2.5 or one to more plies of Type IV or VI ply sheet adhered to the coverboard in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq.
- Membrane:** One ply of Polyflex, Polyflex G, Polyflex G FR, Polyfresko Torch, Polyfresko Torch FR, Polybond, or Polybond G torch applied or one ply of Elastoflex S6, Elastoflex S6 G, Elastoflex S6 G FR, Polyfresko Mop, Polyfresko Mop FR, Elastoshield TSG or Elastoshield TSG FR torch or hot asphalt applied



Surfacing: (Optional) Install one of the approved surfacing products listed in Table 4 to obtain desired coating or required fire classification.

Maximum Design
Pressure: -60 psf; (See General Limitation #7)



NOA No.: 11-0621.07
Expiration Date: 09/13/12
Approval Date: 09/15/11
Page 17 of 34

Deck Type 1I: Wood, Insulated
Deck Description: $1\frac{9}{32}$ " or greater plywood or wood plank.
System Type B(2): Base layer of insulation mechanically fastened, optional top layer adhered with approved asphalt.

All General and System Limitations apply.

One or more layers of the following:

<u>Base Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
ENRGY-3, H-Shield or Polytherm Minimum 1.5" thick	1 or 7	1:1.33 ft ²

Note: Base layer shall be mechanically attached with fasteners and density described. Insulation panels listed are minimum sizes and dimensions; if larger panels are used the number of fasteners per board shall be increased maintaining the same fastener density (See Roofing Application Standard RAS 117 for fastening details).

<u>Top Insulation Layer (Optional)</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
Fesco Board Minimum $\frac{3}{4}$ " thick	N/A	N/A
High Density Wood Fiber Minimum $\frac{1}{2}$ " thick	N/A	N/A

Note: Optional top layer of insulation shall be adhered with approved asphalt within the EVT range and at a rate of 20-40 lbs/100 ft². Please refer to Roofing Application Standard RAS 117 for insulation attachment. Composite insulation boards used as a top layer shall be installed with the polyisocyanurate face down.

Base Sheet: (Optional if using ply sheet in hot asphalt) One or more plies of Elastobase, Modibase, Perma Ply No. 28 or GAFGLAS #75 adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq.

Ply Sheet: (Optional if using base sheet in hot asphalt) One or more plies of Polybond, or Polyflex torch applied or one ply of Elastobase, Modibase, Perma Ply No. 28, Elastoflex S6, Elastoflex V or Elastoflex V 2.5 or one to more plies of Type IV or VI ply sheet adhered to the insulation in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq.

Membrane: One ply of Polyflex, Polyflex G, Polyflex G FR, Polyfresko Torch, Polyfresko Torch FR, Polybond, or Polybond G torch applied or one ply of Elastoflex S6, Elastoflex S6 G, Elastoflex S6 G FR, Polyfresko Mop, Polyfresko Mop FR, Elastoshield TSG or Elastoshield TSG FR torch or hot asphalt applied.



Surfacing: (Optional) Install one of the approved surfacing products listed in Table 4 to obtain desired coating or required fire classification.

Maximum Design
Pressure: -52.5 psf; (See General Limitation #7)



Deck Type II: Wood, Insulated
Deck Description: $19/32$ " or greater plywood or wood plank, fastened with wood screws at 6" o.c.
System Type C(1): All layers of insulation are mechanically attached to roof deck. Membrane is subsequently adhered to insulation.

All General and System Limitations apply.

One or more layers of the following:

<u>Base Insulation Layer (Optional)</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
Any approved Polyisocyanurate Minimum 1.5" thick	N/A	N/A

Note: All layers shall be simultaneously fastened; see top layer below for fasteners and density. Insulation panels listed are minimum sizes and dimensions; if larger panels are used, the number of fasteners shall be increased maintaining the same fastener density. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

<u>Top Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
High Density Wood Fiber Minimum $1/2$ " thick	1	1:1.33 ft ²
Dens Deck, Dens Deck Prime, Securock Minimum $1/4$ " thick	1	1:1.33 ft ²

Note: All layers of insulation shall be mechanically attached using the fastener density listed above. The insulation panels listed are minimum sizes and dimensions; if larger panels are used, the number of fasteners shall be increased maintaining the same fastener density. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Base Sheet: (Optional if using ply sheet in hot asphalt) One or more plies of Elastobase, Modibase, Perma Ply No. 28 or GAFGLAS #75 adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq.

Ply Sheet: (Optional if using base sheet in hot asphalt) One or more plies of Polybond, or Polyflex torch applied or one ply of Elastobase, Modibase, Perma Ply No. 28, Elastoflex S6, Elastoflex V or Elastoflex V 2.5 or one to more plies of Type IV or VI ply sheet adhered to the coverboard in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq.

Membrane: One ply of Polyflex, Polyflex G, Polyflex G FR, Polyfresko Torch, Polyfresko Torch FR, Polybond, or Polybond G torch applied or one ply of Elastoflex S6, Elastoflex S6 G, Elastoflex S6 G FR, Polyfresko Mop, Polyfresko Mop FR, Elastoshield TSG or Elastoshield TSG FR torch or hot asphalt applied



Surfacing: (Optional) Install one of the approved surfacing products listed in Table 4 to obtain desired coating or required fire classification.

Maximum Design
Pressure: -82.5 psf; (See General Limitation #7)



NOA No.: 11-0621.07
Expiration Date: 09/13/12
Approval Date: 09/15/11
Page 21 of 34

Deck Type 1I: Wood, Insulated
Deck Description: ¹⁹/₃₂" or greater plywood or wood plank, fastened with 8d common nails at 4" o.c.
System Type C(2): All layers of insulation are mechanically attached to roof deck. Membrane is subsequently adhered to insulation.

All General and System Limitations apply.

One or more layers of the following:

<u>Base Insulation Layer (Optional)</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
Any approved Polyisocyanurate Minimum 1.5" thick	N/A	N/A

Note: All layers shall be simultaneously fastened; see top layer below for fasteners and density. Insulation panels listed are minimum sizes and dimensions; if larger panels are used, the number of fasteners shall be increased maintaining the same fastener density. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

<u>Top Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
High Density Wood Fiber Minimum ½" thick	1	1:1.33 ft ²
Dens Deck, Dens Deck Prime, Securock Minimum ¼" thick	1	1:1.33 ft ²

Note: All layers of insulation shall be mechanically attached using the fastener density listed above. The insulation panels listed are minimum sizes and dimensions; if larger panels are used, the number of fasteners shall be increased maintaining the same fastener density. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Base Sheet: (Optional if using ply sheet in hot asphalt) One or more plies of Elastobase, Modibase, Perma Ply No. 28 or GAFGLAS #75 adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq.

Ply Sheet: (Optional if using base sheet in hot asphalt) One ply of Polybond, or Polyflex torch applied or one ply of Elastobase, Modibase, Perma Ply No. 28, Elastoflex S6, Elastoflex V or Elastoflex V 2.5 or one to more plies of Type IV or VI ply sheet adhered to the insulation in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq.

Membrane: One ply of Polyflex, Polyflex G, Polyflex G FR, Polyfresko Torch, Polyfresko Torch FR, Polybond, or Polybond G torch applied or one ply of Elastoflex S6, Elastoflex S6 G, Elastoflex S6 G FR, Polyfresko Mop, Polyfresko Mop FR, Elastoshield TSG or Elastoshield TSG FR torch or hot asphalt applied.



Surfacing: (Optional) Install one of the approved surfacing products listed in Table 4 to obtain desired coating or required fire classification.

Maximum Design
Pressure: -67.5 psf; (See General Limitation #7)



NOA No.: 11-0621.07
Expiration Date: 09/13/12
Approval Date: 09/15/11
Page 23 of 34

Deck Type 1I: Wood, Insulated
Deck Description: $1\frac{9}{32}$ " or greater plywood or wood plank.
System Type C(3): All layers of insulation are mechanically attached to roof deck. Membrane is subsequently adhered to insulation.

All General and System Limitations apply.

One or more layers of the following:

<u>Base Insulation Layer (Optional)</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
Any approved Polyisocyanurate Minimum 1.5" thick	N/A	N/A

Note: All layers shall be simultaneously fastened; see top layer below for fasteners and density. Insulation panels listed are minimum sizes and dimensions; if larger panels are used, the number of fasteners shall be increased maintaining the same fastener density. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

<u>Top Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
High Density Wood Fiber Minimum $\frac{1}{2}$ " thick	1	1:1.33 ft ²
Dens Deck, Dens Deck Prime, Securock Minimum $\frac{1}{4}$ " thick	1	1:1.33 ft ²

Note: All layers of insulation shall be mechanically attached using the fastener density listed above. The insulation panels listed are minimum sizes and dimensions; if larger panels are used, the number of fasteners shall be increased maintaining the same fastener density. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Base Sheet: (Optional if using ply sheet in hot asphalt) One or more plies of Elastobase, Modibase, Perma Ply No. 28 or GAFGLAS #75 adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq.

Ply Sheet: (Optional if using base sheet in hot asphalt) One or more plies of Polybond, or Polyflex torch applied or one ply of Elastobase, Modibase, Perma Ply No. 28, Elastoflex S6, Elastoflex V or Elastoflex V 2.5 or one to more plies of Type IV or VI ply sheet adhered to the insulation in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq.

Membrane: One ply of Polyflex, Polyflex G, Polyflex G FR, Polyfresko Torch, Polyfresko Torch FR, Polybond, or Polybond G torch applied or one ply of Elastoflex S6, Elastoflex S6 G, Elastoflex S6 G FR, Polyfresko Mop, Polyfresko Mop FR, Elastoshield TSG or Elastoshield TSG FR torch or hot asphalt applied.



Surfacing: (Optional) Install one of the approved surfacing products listed in Table 4 to obtain desired coating or required fire classification.

Maximum Design
Pressure: -52.5 psf; (See General Limitation #7)



Deck Type 1I: Wood, Insulated
Deck Description: $1\frac{9}{32}$ " or greater plywood or wood plank, fastened with 8d common nails at 4" o.c. or #8 screws at 6" o.c.
System Type D(1): All layers of insulation and base sheet mechanically fastened.

All General and System Limitations apply.

One or more layers of the following:

<u>Base Insulation Layer</u>	<u>Insulation Fasteners</u> <u>(Table 3)</u>	<u>Fastener</u> <u>Density/ft²</u>
Any approved Polyisocyanurate Minimum 1" thick	N/A	N/A
Top Insulation Layer (Optional)	Insulation Fasteners (Table 3)	Fastener Density/ft²
Fesco Board Minimum $\frac{3}{4}$ " thick	N/A	N/A
High Density Wood Fiber Minimum $\frac{1}{2}$ " thick	N/A	N/A
Dens Deck, Dens Deck Prime, Securock Minimum $\frac{1}{4}$ " thick	N/A	N/A

Note: All insulation shall have preliminary attachment, prior to the installation of the roofing membrane at a minimum application rate of two fasteners per board for insulation boards having no dimension greater than 4 ft., and four fasteners for any insulation board having no dimension greater than 8 ft.

Base Sheet: One or more plies of Elastobase or Elastobase P fastened to the deck as described below:

Fastening: Attach base sheet using Buildex Roofgrip Fasteners and Flat Bottom Plates spaced 12" o.c. in a 4" lap and 12" o.c. in two equally spaced staggered rows in the center of the sheet.

Ply Sheet: (Optional) One or more plies of Polyflex, or Polybond torch applied or one ply of Elastobase, Modibase, Perma Ply No. 28, Elastoflex S6, Elastoflex V, or Elastoflex V 2.5 or one or more plies of Type IV or VI ply sheet adhered in full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq..

Membrane: One ply of Polyflex, Polyflex G, Polyflex G FR, Polyfresko Torch, Polyfresko Torch FR, Polybond, or Polybond G torch applied or one ply of Elastoflex S6, Elastoflex S6 G, Elastoflex S6 G FR, Polyfresko Mop, Polyfresko Mop FR, Elastoshield TSG or Elastoshield TSG FR torch or hot asphalt applied.



NOA No.: 11-0621.07
 Expiration Date: 09/13/12
 Approval Date: 09/15/11
 Page 26 of 34

Surfacing: (Optional) Install one of the approved surfacing products listed in Table 4 to obtain desired coating or required fire classification.

Maximum Design
Pressure: -60 psf; (See General limitation #7)



Deck Type 1I: Wood, Insulated
Deck Description: $1\frac{9}{32}$ " or greater plywood or wood plank.
System Type D(2): All layers of insulation and base sheet mechanically fastened.

All General and System Limitations apply.

One or more layers of the following:

<u>Base Insulation Layer</u>	<u>Insulation Fasteners</u> <u>(Table 3)</u>	<u>Fastener</u> <u>Density/ft²</u>
Any approved Polyisocyanurate Minimum 1" thick	N/A	N/A
<u>Top Insulation Layer (Optional)</u>	<u>Insulation Fasteners</u> <u>(Table 3)</u>	<u>Fastener</u> <u>Density/ft²</u>
Fesco Board Minimum $\frac{3}{4}$ " thick	N/A	N/A
High Density Wood Fiber Minimum $\frac{1}{2}$ " thick	N/A	N/A
Dens Deck, Dens Deck Prime, Securock Minimum $\frac{1}{4}$ " thick	N/A	N/A

Note: All insulation shall have preliminary attachment, prior to the installation of the roofing membrane at a minimum application rate of two fasteners per board for insulation boards having no dimension greater than 4 ft., and four fasteners for any insulation board having no dimension greater than 8 ft.

Base Sheet: One or more plies of CertainTeed GlasBase, Polyglass Base, Elastobase, Firestone MB Base, JM Perma-Ply #28, Tamko Glass Base or GAFGLAS #75 fastened to the deck as described below:

Fastening Attach base sheet using Buildex Roofgrip Fasteners and Flat Bottom Plates, Dekfast #14 with Hex Plates or Tru-Fast HD with MP-3 Plates spaced 12" o.c. in a 4" lap and 12" o.c. in two equally spaced staggered rows in the center of the sheet.

Ply Sheet: (Optional) One or more plies of Polyflex, or Polybond torch applied or one ply of Elastobase, Modibase, Perma Ply No. 28, Elastoflex S6, Elastoflex V, or Elastoflex V 2.5 or one or more plies of Type IV or VI ply sheet adhered in full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq.

Membrane: One ply of Polyflex, Polyflex G, Polyflex G FR, Polyfresko Torch, Polyfresko Torch FR, Polybond, or Polybond G torch applied or one ply of Elastoflex S6, Elastoflex S6 G, Elastoflex S6 G FR, Polyfresko Mop, Polyfresko Mop FR, Elastoshield TSG or Elastoshield TSG FR torch or hot asphalt applied.



NOA No.: 11-0621.07
 Expiration Date: 09/13/12
 Approval Date: 09/15/11
 Page 28 of 34

Surfacing: (Optional) Install one of the approved surfacing products listed in Table 4 to obtain desired coating or required fire classification.

Maximum Design
Pressure: -52.5 psf; (See General Limitation #7)



Deck Type 1: Wood, Non-Insulated
Deck Description: ¹⁹/₃₂" or greater plywood or wood plank, fastened with 8d common nails at 4" o.c. or #8 wood screws at 6" o.c.
System Type E(1): Base sheet is mechanically attached to roof deck.

All General and System Limitations apply.

Base Sheet: One ply of Elastobase Poly/Sand, Sand/Sand fastened to the deck as described below:

Fastening: Attach base sheet using Buildex Roofgrip Fasteners and Flat Bottom Plates spaced 12" o.c. in a 4" lap and 12" o.c. in two equally spaced staggered rows in the center of the sheet.

Ply Sheet: (Optional) One or more plies of Polyflex, or Polybond torch applied or one ply of Elastobase, Modibase, Perma Ply No. 28, Elastoflex S6, Elastoflex V, or Elastoflex V 2.5 or one or more plies of Type IV or VI ply sheet adhered in full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq.

Membrane: One ply of Polyflex, Polyflex G, Polyflex G FR, Polyfresko Torch, Polyfresko Torch FR, Polybond, or Polybond G torch applied or one ply of Elastoflex S6, Elastoflex S6 G, Elastoflex S6 G FR, Polyfresko Mop, Polyfresko Mop FR, Elastoshield TSG or Elastoshield TSG FR torch or hot asphalt applied.

Surfacing: (Optional) Install one of the approved surfacing products listed in Table 4 to obtain desired coating or required fire classification.

Maximum Design Pressure: -60 psf; (See General Limitation #7)



Deck Type 1: Wood, Non-Insulated

Deck Description: $1\frac{19}{32}$ " or greater plywood or wood plank, fastened with 8d common nails at 4" o.c. or #8 wood screws at 6" o.c.

System Type E(2): Base sheet is mechanically attached to roof deck.

All General and System Limitations apply.

Base Sheet: One ply of CertainTeed GlasBase, Polyglass Base, Elastobase, Firestone MB Base, JM Perma-Ply #28, Tamko Glass Base or GAFGLAS #75 fastened to the deck as described below:

Fastening: Attach base sheet using 11 ga. annular ring shank and 1-5/8" diameter tin caps spaced 8" o.c. in a 4" lap and 8" o.c. in three equally spaced staggered rows in the center of the sheet.

Ply Sheet: (Optional) One or more plies of Elastobase, Modibase, Perma Ply No. 28, Elastoflex S6, Elastoflex V, Elastoflex V 2.5 or one or more plies of Type IV or VI ply sheet adhered in full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq.

Membrane: One ply of Polyflex, Polyflex G, Polyflex G FR, Polyfresko Torch, Polyfresko Torch FR, Polybond, or Polybond G torch applied or one ply of Elastoflex S6, Elastoflex S6 G, Elastoflex S6 G FR, Polyfresko Mop, Polyfresko Mop FR, Elastoshield TSG or Elastoshield TSG FR torch or hot asphalt applied.

Surfacing: (Optional) Install one of the approved surfacing products listed in Table 4 to obtain desired coating or required fire classification.

Maximum Design Pressure: -60 psf; (See General Limitation #7)



Deck Type 1: Wood, Non-Insulated
Deck Description: ¹⁹/₃₂" or greater plywood or wood plank.
System Type E(3): Base sheet is mechanically attached to roof deck.

All General and System Limitations apply.

Base Sheet: One ply of CertainTeed GlasBase, Polyglass Base, Elastobase, Firestone MB Base, JM Perma-Ply #28, Tamko Glass Base or GAFGLAS #75 fastened to the deck as described below:

Fastening #1: Attach base sheet using 11 ga. annular ring shank and 1-5/8" diameter tin caps spaced 8" o.c. in a 4" lap and 8" o.c. in three equally spaced staggered rows in the center of the sheet.

Fastening #2: Attach base sheet using Buildex Roofgrip Fasteners and Flat Bottom Plates, Dekfast #14 with Hex Plates or Tru-Fast HD with MP-3 Plates spaced 12" o.c. in a 4" lap and 12" o.c. in two equally spaced staggered rows in the center of the sheet.

Ply Sheet: (Optional) One or more plies of Elastobase, Modibase, Perma Ply No. 28, Elastoflex S6, Elastoflex V, Elastoflex V 2.5 or one or more plies of Type IV or VI ply sheet adhered in full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq.

Membrane: One ply of Polyflex, Polyflex G, Polyflex G FR, Polyfresko Torch, Polyfresko Torch FR, Polybond, or Polybond G torch applied or one ply of Elastoflex S6, Elastoflex S6 G, Elastoflex S6 G FR, Polyfresko Mop, Polyfresko Mop FR, Elastoshield TSG or Elastoshield TSG FR torch or hot asphalt applied.

Surfacing: (Optional) Install one of the approved surfacing products listed in Table 4 to obtain desired coating or required fire classification.

Maximum Design Pressure: -52.5 psf; (See General Limitation #7)



Deck Type 1: Wood, Non-Insulated
Deck Description: $1\frac{9}{32}$ " or greater plywood or wood plank.
System Type E(4): Base sheet is mechanically attached to roof deck.

All General and System Limitations apply.

Base Sheet: One ply of Elastobase or Elastobase P fastened to the deck as described below:

Fastening: 11 ga. Annular ring shanked nails and 1-5/8" tin-caps 6" o.c. in 4" lap and 6" o.c. in four equally spaced staggered rows. Tin-caps are primed with PG100 primer.

Ply Sheet: (Optional) One or more plies of Elastobase, Modibase, Perma Ply No. 28, Elastoflex S6, Elastoflex V, Elastoflex V 2.5 or one or more plies of Type IV or VI ply sheet adhered in full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq.

Membrane: One ply of Polyflex, Polyflex G, Polyflex G FR, Polyfresko Torch, Polyfresko Torch FR, Polybond, or Polybond G torch applied or one ply of Elastoflex S6, Elastoflex S6 G, Elastoflex S6 G FR, Polyfresko Mop, Polyfresko Mop FR, Elastoshield TSG or Elastoshield TSG FR torch or hot asphalt applied.

Surfacing: (Optional) Install one of the approved surfacing products listed in Table 4 to obtain desired coating or required fire classification.

Maximum Design Pressure: -112.5 psf; (See General Limitation #7)



WOOD DECK SYSTEM LIMITATIONS:

1. A slip sheet is required with Ply 4 and Ply 6 when used as a mechanically fastened base or anchor sheet.

GENERAL LIMITATIONS:

1. Fire classification is not part of this acceptance; refer to a current Approved Roofing Materials Directory for fire ratings of this product.
2. Insulation may be installed in multiple layers. The first layer shall be attached in compliance with Product Control Approval guidelines. All other layers shall be adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq., or mechanically attached using the fastening pattern of the top layer
3. All standard panel sizes are acceptable for mechanical attachment. When applied in approved asphalt, panel size shall be 4' x 4' maximum.
4. An overlay and/or recovery board insulation panel is required on all applications over closed cell foam insulations when the base sheet is fully mopped. If no recovery board is used the base sheet shall be applied using spot mopping with approved asphalt, 12" diameter circles, 24" o.c.; or strip mopped 8" ribbons in three rows, one at each side lap and one down the center of the sheet allowing a continuous area of ventilation. Encircling of the strips is not acceptable. A 6" break shall be placed every 12' in each ribbon to allow cross ventilation. Asphalt application of either system shall be at a minimum rate of 12 lbs./sq.

Note: Spot attached systems shall be limited to a maximum design pressure of -45 psf.

5. Fastener spacing for insulation attachment is based on a Minimum Characteristic Force (F') value of 275 lbf., as tested in compliance with Testing Application Standard TAS 105. If the fastener value, as field-tested, are below 275 lbf. insulation attachment shall not be acceptable.
6. Fastener spacing for mechanical attachment of anchor/base sheet or membrane attachment is based on a minimum fastener resistance value in conjunction with the maximum design value listed within a specific system. Should the fastener resistance be less than that required, as determined by the Building Official, a revised fastener spacing, prepared, signed and sealed by a Florida registered Professional Engineer, Registered Architect, or Registered Roof Consultant may be submitted. Said revised fastener spacing shall utilize the withdrawal resistance value taken from Testing Application Standards TAS 105 and calculations in compliance with Roofing Application Standard RAS 117.
7. Perimeter and corner areas shall comply with the enhanced uplift pressure requirements of these areas. Fastener densities shall be increased for both insulation and base sheet as calculated in compliance with Roofing Application Standard RAS 117. Calculations prepared, signed and sealed by a Florida registered Professional Engineer, Registered Architect, or Registered Roof Consultant **(When this limitation is specifically referred within this NOA, General Limitation #9 will not be applicable.)**
8. All attachment and sizing of perimeter nailers, metal profile, and/or flashing termination designs shall conform to Roofing Application Standard RAS 111 and applicable wind load requirements.
9. The maximum designed pressure limitation listed shall be applicable to all roof pressure zones (i.e. field, perimeters, and corners). Neither rational analysis, nor extrapolation shall be permitted for enhanced fastening at enhanced pressure zones (i.e. perimeters, extended corners and corners). **(When this limitation is specifically referred within this NOA, General Limitation #7 will not be applicable.)**

END OF THIS ACCEPTANCE



NOA No.: 11-0621.07
Expiration Date: 09/13/12
Approval Date: 09/15/11
Page 34 of 34